

NanoWire Project

Game Changing Development Program | Space Technology Mission Directorate (STMD)



ANTICIPATED BENEFITS

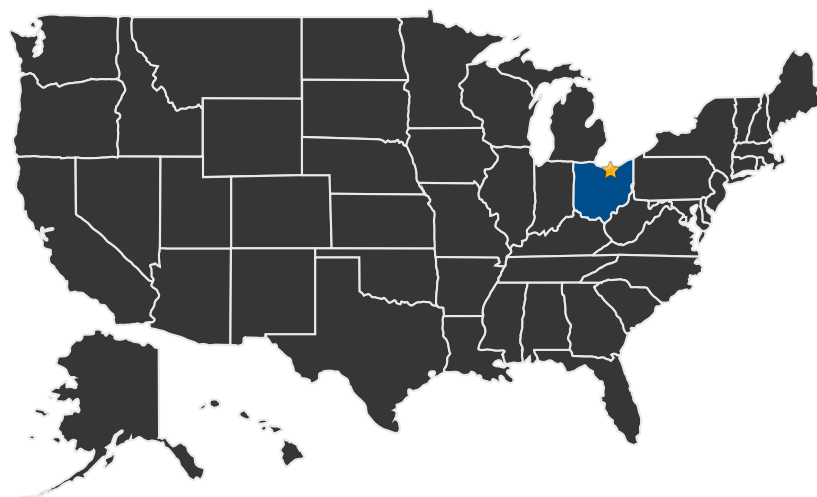
To NASA funded missions:

Wires with aerogel insulation can provide significant mass savings for aircraft and spacecraft.

DETAILED DESCRIPTION

Evaluate at least five polyimide aerogel formulations for coating cables and downselect for optimization study.

U.S. WORK LOCATIONS AND KEY PARTNERS



■ U.S. States
With Work

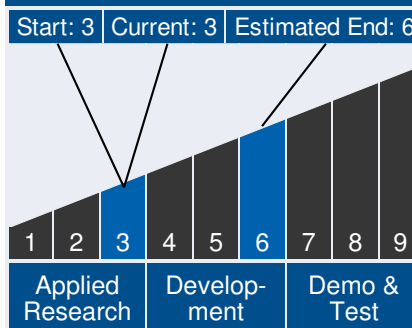
★ **Lead Center:**
Glenn Research Center



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Technology Maturity



Management Team

Program Executive:

- Lanetra Tate

Program Manager:

- Mary Wusk

Project Manager:

- Azlin Biaggi-Iabiosa

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Technology Areas

Primary Technology Area:

Nanotechnology (TA 10)

- └ Engineered Materials and Structures (TA 10.1)
 - └ Lightweight Structures (TA 10.1.1)
 - └ Lightweight Cable Insulation (TA 10.1.1.8)

Secondary Technology Area:

Nanotechnology (TA 10)

- └ Engineered Materials and Structures (TA 10.1)
 - └ Lightweight Structures (TA 10.1.1)
 - └ Low Density Data Cables (TA 10.1.1.7)

Additional Technology Areas:

Nanotechnology (TA 10)

- └ Energy Storage, Power Generation, and Power Distribution (TA 10.2)
 - └ Power Distribution (TA 10.2.3)
 - └ Carbon Nanotube Based Power and Avionics Cables (TA 10.2.3.1)

DETAILS FOR TECHNOLOGY 1
